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T 58.103:
TT-T-291a
TT-T-291a
JULY 26, 1945
SUPERSEDING
Fed. Spec. TT-T-291
March 31, 1931

FEDERAL STANDARD STOCK CATALOG

Section IV

(Part 5)

FEDERAL SPECIFICATION

FOR

THINNER; PAINT, VOLATILE MINERAL SPIRITS
(PETROLEUM SPIRITS)

This specification was approved on the above date by the Director of Procurement, for the use of all departments and establishments of the Government, and shall become effective not later than October 1, 1945, for use in procurement initiated on or after that date. It may be put into effect, however, at any earlier date after promulgation.

A. APPLICABLE SPECIFICATIONS

A-1. The following Federal specification, of the issue in effect on the date of invitation for bids, shall form a part of this specification:

TT-P-141—Paint, Varnish, Lacquer, and Related Materials; General Specification for Sampling and Test Methods.

B. GRADES

B-1. This specification covers two grades of petroleum distillate known as mineral spirits or petroleum spirits for use in thinning paints. The grade desired shall be specified in the invitation for bids. (See Notes I-1a and I-1b.)

Grade 1—Light thinner.
Grade 2—Heavy thinner.

C. MATERIAL

C-1. Material shall be as specified under Detail Requirements.

D. GENERAL REQUIREMENTS

D-1. See Detail Requirements.

E. DETAIL REQUIREMENTS

E-1. *Appearance*.—Shall be clear and free from suspended matter and water.

E-2. *Color*.—Shall be no darker than an aqueous solution of potassium dichromate containing 0.0048 gram per liter.

E-3. *Spot test (grade 1 only)*.—Shall evaporate completely from filter paper.

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E-4. Blackening.—Shall not blacken clean metallic copper.
E-5. Acidity.—The residue after distillation shall be neutral.
E-6. The material shall conform to the requirements of table I for the grade specified, when subjected to the tests prescribed in paragraph F-3.

TABLE I

	Grade 1		Grade 2	
	Maximum	Minimum	Maximum	Minimum
Aniline point.....	59° C. (138° F.)	43° C. (110° F.)	65° C. (155° F.)	43° C. (110° F.)
Flash point.....		38° C. (100° F.)		51.5° C. (125° F.)
Distillation:				
Initial boiling point.....		150° C. (302° F.)		171° C. (340° F.)
90 percent (by volume).....	200° C. (392° F.)			
95 percent (by volume).....			238° C. (460° F.)	
End point.....	210° C. (410° F.)		251.5° C. (485° F.)	

F. METHODS OF SAMPLING, INSPECTION, AND TESTS

F-1. Detection and removal of separated water.—Draw a portion by means of a glass or metal container with a removable stopper or top, or with a "thief" from the lowest part of the container, or by opening the bottom valve of the perfectly level tank car. If water is found to be present, draw it all out, record the quantity, and deduct it from the total volume of liquid delivered.

F-2. Sampling.—The method of sampling given under F-2a should be used whenever feasible. When method F-2a is not applicable, method F-2b, F-2c, or F-2d is to be used, according to the special conditions that obtain.

F-2a. While loading tank car or while filling containers for shipment.—Samples shall be drawn by the purchaser's inspector at the discharge pipe where it enters the receiving vessel or vessels. The composite sample shall be not less than 5 gallons and shall consist of small portions of not more than 1 quart each, taken at regular intervals during the entire period of loading or filling. The composite sample thus obtained shall be thoroughly mixed, and from it three samples of not less than 1 quart each shall be placed in clean, dry, glass bottles or tin cans, which must be nearly filled with the sample and securely stoppered with new, clean corks or well-fitting covers or caps. These shall be sealed and distinctly labeled by the inspector. One shall be delivered to the buyer, one to the seller, and the third held for check in case of dispute.

F-2b. From loaded tank car or other large vessel.—The composite sample taken shall be not less than 3 quarts and shall consist of samples of not more than 1 quart each, taken from the top, bottom, and intermediate points by means of a "thief" or other sampling device. This device attached to a suitable pole is lowered to the various desired depths, when the stopper or top is removed and the

container allowed to fill. The sample thus obtained is handled as in F-2a.

F-2c. Barrels and drums.—Barrels and drums shall be sampled after gaging contents. Five percent of the packages in any shipment or delivery shall be represented in the sample. Thoroughly mix the contents of each barrel to be sampled by stirring with a clean rod and withdraw a portion from about the center by means of a "thief" or other sampling device. The composite sample thus obtained shall be not less than 3 quarts, shall consist of equal portions of not less than one-half pint from each package sampled, and shall be handled as in F-2a. Should the inspector suspect adulteration, he shall draw the samples from the suspected packages.

F-2d. Small containers, cans, etc., of 10 gallons or less.—These should be sampled, while filling, by method F-2a whenever possible; but in case this is impossible, the composite sample taken shall be not less than 3 quarts. This shall be drawn from at least five packages (from all when fewer), and in no case from less than 2 percent of the packages. The composite sample thus taken shall be thoroughly mixed and subdivided as in F-2a.

F-3. Laboratory examination.—The test methods subsequently referred to by number are those of Federal Specification TT-P-141a, Paint, Varnish, Lacquer, and Related Materials; General Specification for Sampling and Test Methods.

F-3a. Appearance.—Method 426. Examine also for the presence of water.

F-3b. Color.—Method 424, except dissolve the potassium dichromate in distilled water in the proportions given in paragraph E-2. Color No. 21, Saybolt Chromometer and the No. 2 tube, Gardner Color Standards are approximately equal to the specified color and may be used as secondary standards.

F-3c. Spot test (grade 1 only).—Transfer five drops of the sample by means of a small pipette or burette to the center of a clean white filter paper supported on a 7-centimeter crystallizing dish and allow the liquid to evaporate at room temperature, away from direct sunlight. There should be no oily spot left after 30 minutes.

F-3d. Aniline point.—Method 438.1.

F-3e. Flash point.—Method 429.1.

F-3f. Blackening (copper corrosion).—Method 510.

F-3g. Distillation.—Method 430.1.

F-3h. Acidity.—Collect in a test tube the cooled residue from the distillation flask (see F-3g), add three volumes of distilled water and shake the tube thoroughly. Allow the mixture to separate and remove the aqueous layer to a clean test tube by means of a pipette. Add one drop of a 1-percent solution of methyl orange. No pink or red color should be formed.

G. PACKAGING, PACKING, AND MARKING FOR SHIPMENT

G-1. Packaging.—Unless otherwise specified, commercial packages are acceptable under this specification.

G-2. Packing.—Unless otherwise specified, the subject commodity shall be delivered in substantial commercial containers of the type, size, and kind commonly used for the purpose, so constructed as to insure acceptance and safe delivery by common or other carriers, at the lowest rate, to point of delivery called for in the contract or purchase order.

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G-3. Marking.—Unless otherwise specified, shipping containers shall be marked with the name of the material, the type and the quantity contained therein, as defined by the contract or order under which the shipment is made, the name of the contractor, and the number of the contract or order.

H. REQUIREMENTS APPLICABLE TO INDIVIDUAL DEPARTMENTS

H-1. The following departmental specifications of the issue in effect on date of invitation for bids, and special requirements shall form a part of this specification, and shall be applicable to purchases made under this specification by the respective departments.

H-2. Army.—United States Army Specification No. 100-2, Standard Specification for Marking Shipments by Contractors.

H-3. Navy.—

H-3a. Specifications.—

Navy Department:

General Specifications for Inspection of Material.

39P16—Packaging, and Packing for Overseas Shipment:

Section VI—Boxes, wood, nailed.

Section VII—Boxes, wood, wire-bound.

Section XXIV—Cans and pails, metal.

Interstate Commerce Commission:

17E—Steel Drums, Single-Trip Container.

Copies of the above-referred-to Navy Department specifications may be obtained without cost upon application to the Bureau of Supplies and Accounts, Navy Department, Washington 25, D. C., except that Naval activities should make application to the Supply Officer in Command, Naval Supply Depot, Bayonne, N. J.

Copies of the Navy Shipment Marking Handbook may be obtained by Naval activities and others upon application to the Bureau of Supplies and Accounts.

Copies of Interstate Commerce Commission Regulations for Transportation of Explosives and Other Dangerous Articles, etc., of which I. C. C. Specification 17E forms a part, may be obtained upon application, accompanied by money order, coupon, or cash, to the Superintendent of Documents, Government Printing Office, Washington 25, D. C., price 40 cents.

H-3b. Packaging.—

H-3b (1). *For domestic shipment.*—Unless otherwise specified, the subject commodity shall be furnished in 5-gallon square cans, 5-gallon closed top steel containers, 55-gallon steel containers, or tank cars, as specified in the contract or order.

H-3b (1) a. Five-gallon square cans shall be made of special coated manufacturer's terneplate throughout and shall conform to the requirements of Navy Department Specification 39P16, section XXIV, except that no exterior protective coating will be required.

H-3b (1) b. Five-gallon closed top steel containers shall conform to the requirements of Navy Department Specification 39P16, section XXIV.

H-3b (1) c. Fifty-five gallon steel containers shall conform to the requirements of Interstate Commerce Commission Specification 17E.

H-3b (2). *For overseas shipment.*—Unless otherwise specified, the subject commodity shall be furnished in 5-gallon closed-top steel containers or 55-gallon steel containers (see pars. H-3b (1) and H-3b (1) c), as specified in the contract or order.

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H-3c. Packing.—

H-3c (1). *For domestic shipment.*—Unless otherwise specified, 5-gallon closed-top steel containers and 55-gallon steel containers will require no packing. Two 5-gallon square cans shall be packed in a nailed wood or wire-bound box conforming to the requirements of Navy Department Specification 39P16, sections VI and VII, respectively. Each box shall be strapped in accordance with the requirements of the appendix of the applicable box specification.

H-3c (2). *For overseas shipment.*—Unless otherwise specified, 5-gallon closed top steel containers and 55-gallon steel containers will require no packing.

H-3d. Marking.—

H-3d (1). *Five-gallon square cans.*—Unless otherwise specified, 5-gallon square cans shall be plainly marked with the following information completed:

MATERIAL _____
QUANTITY _____
SYMBOL NO. _____
SPECIFICATION NO. _____
APPROVAL NO. _____
CONTRACTOR _____
MANUFACTURER _____

H-3d (2). *Shipping containers.*—Unless otherwise specified, shipping containers shall be plainly marked with the following information completed:

MATERIAL _____
QUANTITY _____
SYMBOL NO. _____
SPECIFICATION NO. _____
CONTRACTOR _____
CONTRACT NO. _____
GROSS WEIGHT _____
CUBE _____

In addition to the foregoing, marking shall conform to the requirements of the latest issue of the Navy Shipment Marking Handbook.

I. NOTES

I-1. Both grades of the paint thinner (volatile mineral spirits or petroleum spirits) specified herein may be used in place of turpentine in thinning oil paints.

I-1a. Grade 1, light thinner, is intended for general use in thinning paints.

I-1b. Grade 2, heavy thinner, is intended for use only as a thinner for paints where conditions of application, temperature and humidity require a slower rate of evaporation of the thinner from the paint or a longer setting-up period.

I-2. For formulas and methods of using this material and information regarding the use of other specification paint materials, see National Bureau of Standards Building Materials and Structures Report BMS 105, "Paint Manual (With Particular Reference to Federal Specifications)", for sale by the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

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I-3. Basis of purchase.—

I-3a. *Unit.*—Mineral spirits should be purchased either (1) by volume, the unit being a gallon of 231 cubic inches at 15.5° C. (60° F.), or (2) by weight. A gallon of mineral spirits at 15.5° C. (60° F.) weighs 6.3 to 6.8 pounds. The weight in pounds per gallon of any sample can be determined by multiplying the specific gravity at 15.5°/15.5° C. (60°/60° F.) by 8.33. Example: If the specific gravity at 15.5°/15.5° C. is 0.764, the weight per gallon at this temperature will be $0.764 \times 8.33 = 6.364$ pounds. When purchased by weight, quotations should be by the pound or by the 100 pounds. The request for bids should state whether quotations shall be by the gallon, pound, or 100 pounds.

I-4. It is believed that this specification adequately describes the characteristics necessary to secure the desired material and that normally no samples will be necessary prior to award to determine compliance with this specification. If, for any particular purpose, samples with bids are necessary, they should be specifically asked for in the invitation for bids, and the particular purpose to be served by the bid sample should be definitely stated, the specification to apply in all other respects.

I-5. Federal Specifications do not include all types, classes, grades, sizes, etc., of the commodities indicated by the titles of the specifications, or which are commercially available but are intended to cover the types, etc., which are suitable for Federal Government requirements.

I-6. An Index of Federal Specifications and also a Supplement-Index of Emergency Alternate Federal Specifications may be purchased as noted in the paragraph below, price to be obtained from the Superintendent of Documents.

I-7. Copies of this specification and of TT-P-141a may be obtained upon application, accompanied by postal notes, money order, or coupon or cash, to Superintendent of Documents, Government Printing Office, Washington 25, D. C. Price of this specification 5 cents; TT-P-141a, 20 cents.

Notice.—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

U. S. GOVERNMENT PRINTING OFFICE: 1945

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Section IV
(Part 5)

FEDERAL SPECIFICATION

FOR

THINNER; PAINT, VOLATILE MINERAL SPIRITS
(PETROLEUM-SPIRITS)

This amendment was approved on the above date by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

The following changes shall be made in Federal Specification TT-T-291a, dated July 26, 1945.

Pages TT-T-291a-4 and 5:

Paragraphs H-3 to H-3d (2) inclusive. Delete and substitute new paragraphs H-3 through H-3d as follows:

H-3. Navy.

H-3a. Applicable specifications and standards.

Federal Specification:

TT-P-143—Paint, Varnish, Lacquer, and Related Materials; General Specification for Packaging, Packing, and Marking.

Navy Department Specification:

General Specifications for Inspection of Material.

Military Standard:

MIL-STD-105—Sampling Procedures and Tables for Inspection by Attributes.

(Copies of specifications, standards, and drawings required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)

H-3b. Sampling, inspection, and test procedures.

H-3b (1). Inspection procedures.—The general inspection procedures shall be in accordance with General Specifications for Inspection of Material.

H-3b (2). Lot.—For purposes of sampling, a lot shall consist of paint thinner from one batch or tank offered for delivery at one time. If material cannot be identified by batch or tank, a lot shall consist of not more than 10,000 gallons offered for delivery at one time.

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H-3b (3). Sampling for tests (at a Government laboratory).—From each inspection lot (see H-3b (2)), the Government inspector shall select two containers at random. From each of the two containers, 1-quart specimens shall be taken and placed in separate, clean, dry, metal or glass containers, and then sealed, marked, and forwarded to the testing laboratory designated by the bureau or agency concerned, except that where delivery is to be made to Mare Island Naval Shipyard, Vallejo, Calif., or to Norfolk Naval Shipyard, Portsmouth, Va., samples shall be forwarded to the activity receiving delivery.

H-3b (3) a. The Government inspector shall, when requested by the contractor, select sample specimens in accordance with H-3b (3) with the following exception: Three-quart specimens shall be taken instead of 1-quart specimens. Each 3-quart specimen shall be divided into three equal parts, one part to be delivered to the contractor, one part to the testing laboratory, and one part to be held by the inspector in case of dispute.

H-3b (4). Testing activity.—Unless otherwise specified, or designated (see H-3b (3)), the samples taken by the Government inspector as required for test purpose shall be forwarded to the Industrial Test Laboratory, Philadelphia Naval Shipyard, Philadelphia 12, Pa., to Industrial Laboratory, Mare Island Naval Shipyard, Vallejo, Calif., or to the Chemical Laboratory, Norfolk Naval Shipyard, Portsmouth, Va.

H-3b (5). Sampling for inspection of containers (at the contractor's plant).—A random sample of filled containers shall be selected by the Government inspector in accordance with MIL-STD-105 at Inspection Level 1 and Acceptable Quality Level=2.5 percent defective to verify compliance with this specification in regard to fill, closure, marking, and other requirements not involving tests.

H-3b (6). Inspection of containers (at the contractor's plant).—Each sample filled container selected as specified in H-3b (5) shall be examined for defects of construction of the container and the closure, for evidence of leakage, and for unsatisfactory markings; each filled container shall also be weighed to determine the amount of contents. Any container in the sample having one or more defects, or under required fill, shall be rejected, and if the number of defective containers in any sample exceeds the acceptance number for the appropriate sampling plan of MIL-STD-105, the lot represented by the sample shall be rejected. Rejected lots may be resubmitted for acceptance tests, provided the contractor has removed (or reworked) all nonconforming products.

H-3b (7). Lot acceptance tests.—The samples selected in accordance with H-3b (3) shall be subjected to the tests specified in section F except that the laboratory may perform complete tests on only one sample provided sufficient tests are made on the second to verify that both are alike. Lots shall be accepted or rejected by the Government inspector

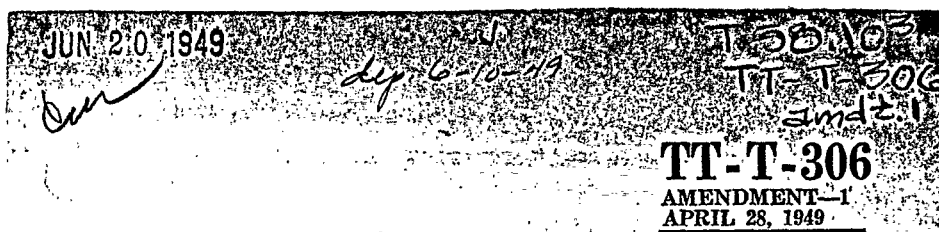
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on the basis of the laboratory test report on the transmitted samples. Rejected lots may be resubmitted for acceptance tests, provided the contractor has removed (or reworked) all nonconforming products.

H-3c. Preparation for delivery.
H-3c (1). Unless otherwise specified paint thinner shall be delivered in 5-gallon drums, 55-gallon drums, or in bulk. Preparation for delivery shall conform to Specification TT-P-143 except that marking of the following information shall be by lithographic process or stencil:

- Name of material
- Stock number
- Fed. Spec. TT-T-291
- Name of manufacturer
- Manufacturer's batch number
- Date of manufacture
- Government contract and/or order number
- H-3d. Procurement documents should specify the following:**
 - (a) Title, number, and date of this specification
 - (b) Size of container required or whether bulk shipping:
 - (c) Grade of material required
 - (d) Whether preparation for domestic or overseas shipment is required



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FEDERAL SPECIFICATION

FOR

THINNER; SYNTHETIC-ENAMEL

This amendment was approved on the above date by the Director, Bureau of Federal Supply, for the use of all departments and establishments of the Government, and shall become effective not later than July 15, 1949 for use in procurement initiated on or after that date. It may be put into effect, however, at any earlier date after promulgation.

The following changes shall be made in Federal Specification TT-T-306, dated June 19, 1947:
Pages TT-T-306-3, 4, and 5:

Paragraphs H-2 through H-3e. Delete in their entirety and substitute paragraphs H-2 through H-3a as follows:

H-2. *Army and Navy.*—

H-2a. *Applicable specifications and other publications.*—

Federal Specifications:

LLL-B-631—Boxes; Fiber, Corrugated (for Domestic Shipment).

LLL-B-636—Boxes; Fiber, Solid (for Domestic Shipment).

Joint Army-Navy Specifications:

JAN-P-106—Packaging and Packing for Overseas Shipment—Boxes; Wood, Nailed.

JAN-P-110—Packaging and Packing for Overseas Shipment—Drums; Metal, 55-Gallon (for other than Petroleum Products).

JAN-P-124—Packaging and Packing for Overseas Shipment—Containers (Cans, Pails and Drums) Metal (for Other than Subsistence Items).

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U. S. Army Specification:

100-2—Standard Specification for Marking Shipments by Contractors.¹

Navy Department Specification:

General Specifications for Inspection of Material.²

Bureau of Supplies and Accounts Publication:
Navy Shipment Marking Handbook.²

Interstate Commerce Commission Publication:

Regulations for Transportation of Explosives and Other Dangerous Articles by Freight.

U. S. Coast Guard Publication:

Regulations for Explosives or Other Dangerous Articles on Board Vessels.

(Copies of Federal and Joint Army-Navy specifications required for Navy purchases, Navy Department specifications, and the Navy Shipment Marking Handbook may be obtained without cost upon application to the Bureau of Supplies and Accounts, Navy Department, Washington 25, D. C., except that Naval activities should make application to the Supply Officer in Command, Naval Supply Center, Norfolk 11, Va. Both the title and identifying symbol or number should be stipulated when requesting copies of specifications.

(Copies of specifications required for Army purchases may be obtained from the procuring agency. Both the title and the identifying symbol or number should be stipulated when requesting copies.

(Information as to the availability of Regulations for Transportation of Explosives and Other Dangerous Articles by Freight may be obtained from the Interstate Commerce Commission, Washington 25, D. C.

(Information as to the availability of Regulations for Explosives or Other Dangerous Articles on Board Vessels may be obtained from the U. S. Coast Guard, Washington 25, D. C.)

H-2b. Packaging.—The thinner shall be packaged in 1-gallon cans, 5-gallon containers, or in 55-gallon metal drums, as specified in the invitation for bids.

H-2b (1). One-gallon containers.—One-gallon square or rectangular-base metal cans shall conform to the requirements of Joint Army-Navy Specification JAN-P-124, type I. Each container shall have a formed bridge-type handle securely affixed to the center of the top. Cans shall be fitted with screw-neck closures and innerseals shall be provided to prevent leakage.

H-2b (2). Five-gallon containers.—Five-gallon liquid-tight metal containers shall conform to the requirements of Joint Army-Navy Specification JAN-P-124, type V. Cans shall be constructed throughout from 24-gage steel. The container body shall be offset to permit stacking. The body shall have two

¹ Applicable to Army purchases only.
² Applicable to Navy purchases only.

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heads or rolling hoops. The container head shall be fitted with an embossed vent and a 1¼-inch continuous-thread curled and milled screwcap equipped with a tamperproof export inner seal.

H-2b (3). Fifty-five gallon drums.—Fifty-five-gallon drums shall be single-trip, 55-gallon capacity, round metal drums of not less than 18 gage. Drums shall be liquid-tight, closed top, fabricated in accordance with the requirements of Joint Army-Navy Specification JAN-P-110. Containers shall be filled so as to provide an air space sufficient to permit thermal expansion without leakage.

H-2c. Packing.—

H-2c (1). For domestic shipment.—

H-2c (1) a. One-gallon containers.—

H-2c (1) a (1). When the weight of the 1-gallon container is more than 10 pounds, six 1-gallon cans shall be packed in a nailed wood box conforming to Joint Army-Navy Specification JAN-P-106, style 2 or 4, type 2 load, except that the sides, top, and bottom shall be of not less than 7/16-inch material. Boxes need not be strapped. The arrangement of the cans in the box shall be three in length and two in width. A wood strip extending the full length of the box and high enough to provide at least ¼-inch clearance between the handles and the top of the box, shall be provided.

H-2c (1) a (2). When the weight of the 1-gallon container is less than 10 pounds, four 1-gallon containers shall be packed in a fiberboard box conforming to the requirements of Federal Specification LLL-B-631 or LLL-B-636, style RSC. The minimum bursting strength of the fiberboard shall be 275 pounds. All flaps of the fiberboard box shall be sealed with a good quality adhesive applied evenly throughout the entire area of contact between the flaps. Cells or buffer pads extending the full length of the box, and high enough to provide at least ¼-inch clearance between the handles and the top of box, shall be provided.

H-2c (1) b. Five- and 55-gallon containers.—Unless otherwise specified, 5- and 55-gallon containers need no overpacking.

H-2c (2). For overseas shipment.—

H-2c (2) a. One-gallon containers.—Unless otherwise specified, six 1-gallon containers shall be packed in a nailed wood box constructed, strapped, and sealed in conformance with the requirements of Joint Army-Navy Specification JAN-P-106, style 2 or 4, type 2 load, except that the sides, top, and bottom shall be of not less than 7/16-inch material. The arrangement of cans in the box shall be three in length and two in width. A wood strip extending the full length of the box and high enough to provide at least ¼-inch clearance between the handles and the top of the box, shall be provided.

H-2c (2) b. Five- and 55-gallon containers.—Unless otherwise specified, 5- and 55-gallon containers packaged as specified in paragraphs H-2b (2) and H-2b (3), respectively, need no overpacking.

H-2d. Marking and labeling.—

H-2d (1). Army.—

H-2d (1) a. Cans and drums.—Unless otherwise specified all cans and drums shall be durably and legibly marked on the

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main panel of the body by lithographing, stenciling, or hand stamping with a noncorrosive, weather-resistant, waterproof ink, which will not smear or rub off during ordinary handling, with the following information:

Stock number.
Nomenclature.
Quantity.
Contract or order number.
Name and address of manufacturer.

H-2d (1) b. *Exterior shipping containers.*—Exterior shipping containers shall be marked in conformance with the requirements of U. S. Army Specification 100-2 and, in addition, each shipping container shall have labels or other danger and hazard markings as required by law as specified in Interstate Commerce Commission Regulations for Transportation of Explosives and Other Dangerous Articles by Freight, and U. S. Coast Guard Regulations for Explosives or Other Dangerous Articles on Board Vessels.

H-2d (2). *Navy.*—In addition to any special marking required by the contract or order, marking of interior packages and shipping containers shall be in accordance with the requirements of the Navy Shipment Marking Handbook, the Interstate Commerce Commission Regulations for Transportation of Explosives and Other Dangerous Articles by Freight, and the U. S. Coast Guard Regulations for Explosives or Other Dangerous Articles on Board Vessels.

H-2e. *Ordering data.*—Requests, requisitions, schedules, and contracts or orders should specify the type of container required, and whether the subject commodity is to be packaged, packed, and shipping containers marked for domestic or overseas shipment. (See pars. H-2b and H-2c.)

H-3. *Air Force.*—

H-3a. *Marking for shipment.*—Marking of shipping containers shall be in accordance with the requirements of U. S. Army Specification 94-40645, Marking, Exterior, Domestic and Export shipment, by Contractors. (Copies of specifications required for Air Force purchases may be obtained from the Commanding General, Air Materiel Command, Wright-Patterson Air Force Base, Dayton, Ohio.)

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SEPTEMBER 5, 1951

SUPERSEDING

AMENDMENT-1

April 25, 1949

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Section IV

(Part 5)

FEDERAL SPECIFICATION

FOR

THINNER; SYNTHETIC-ENAMEL

This amendment was approved on the above date by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

The following changes shall be made in Federal Specification TT-T-306, dated June 19, 1947:

Pages TT-T-306-3, 4, and 5:

Paragraphs H-2 through H-3e. Delete in their entirety and substitute new paragraphs H-2 through H-4a, as follows:

H-2. Army.

H-2a. Applicable specifications and other publications.

Military Specifications:

JAN-P-110—Packaging and Packing for Overseas Ship-

ment—Drums; Metal, 55-Gallon (for

Other than Petroleum Products).

JAN-P-124—Packaging and Packing for Overseas Ship-

ment—Containers (Cans, Pails, and

Drums), Metal (for Other than Subsistence Items).

U. S. Army Specification:

100-2—Standard Specification for Marking Shipments

by Contractors.

Interstate Commerce Commission Publication:

Regulations for Transportation of Explosives and

Other Dangerous Articles by Freight.

U. S. Coast Guard Publication:

Regulations for Explosives or Other Dangerous Articles

on Board Vessels.

(Copies of specifications, standards, and drawings required by the contractor in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)

(Information as to the availability of Regulations for Transportation of Explosives and Other Dangerous Articles by

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Freight may be obtained from the Interstate Commerce Commission, Washington 25, D. C.

(Information as to the availability of Regulations for Explosives or Other Dangerous Articles on Board Vessels may be obtained from the U. S. Coast Guard, Washington, 25, D. C.)

H-2b. *Packaging for overseas shipment.*—The thinner shall be packaged in 1-gallon cans, 5-gallon containers, or in 55-gallon metal drums, as specified in the invitation for bids.

H-2b (1). *One-gallon containers.*—One-gallon square or rectangular-base metal cans shall conform to the requirements of Military Specification JAN-P-124, type I. Each container shall have a formed bridge-type handle securely affixed to the center of the top. Innerseals shall be provided to prevent leakage.

H-2b (2). *Five-gallon containers.*—Five-gallon liquid-tight metal containers shall conform to the requirements of Military Specification JAN-P-124, type V. Cans shall be constructed throughout from 22-gage steel. When specified in the contract or order, containers shall have rolled or swaged beads for added strength.

H-2b (3). *Fifty-five gallon drums.*—Fifty-five-gallon drums shall be single-trip, fifty-five-gallon capacity, round metal drums of not less than 18 gage. Drums shall be liquid-tight, closed top, fabricated in accordance with the requirements of Military Specification JAN-P-110. Containers shall be filled so as to provide an air space sufficient to permit thermal expansion without leakage.

H-2c. *Packing for overseas shipment.*

H-2c (1). *One-gallon containers.*—One-gallon containers shall be packed in conformance with the appendix to Specification JAN-P-124, except that exterior containers shall be limited to nailed wood boxes and wood-cleated plywood boxes.

H-2c (2). *Five-gallon containers and fifty-five-gallon drums.*—Five-gallon containers and fifty-five-gallon drums will require no overpacking.

H-2d. *Marking and labeling.*

H-2d (1). *Cans and drums.*—Unless otherwise specified, all cans and drums shall be durably and legibly marked on the main panel of the body by lithographing, stenciling, or hand stamping with a noncorrosive, weather-resistant, waterproof ink, which will not smear or rub off during ordinary handling, with the following information:

Stock number
Nomenclature
Fed. Spec. TT-T-306
Quantity
Contract or order number
Name and address of manufacturer

H-2d (2). *Exterior shipping containers.*—Exterior shipping containers shall be marked in conformance with the requirements of U. S. Army Specification 100-2 and, in addition,

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tion, each shipping container shall have labels or other danger and hazard markings as required by law as specified in Interstate Commerce Commission Regulations for Transportation of Explosives and Other Dangerous Articles by Freight, and U. S. Coast Guard Regulations for Explosives or Other Dangerous Articles on Board Vessels.

H-3. *Navy.*

H-3a. *Applicable specifications:*

Federal Specification:

TT-P-143—Paint, Varnish, Lacquer, and Related Materials; General Specification for Packaging, Packing, and Marking.

Navy Department Specification:

General Specifications for Inspection of Material.

(Copies of specifications, standards, and drawings required by the contractor in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)

H-3b. *Inspection procedures.*—For Naval purchases the general inspection procedures shall be in accordance with General Specifications for Inspection of Material.

H-3c. *Packaging, packing, and marking.*—The thinner shall be packaged, packed, and marked in 1-gallon, 5-gallon, or 55-gallon containers in accordance with the requirements of Specification TT-P-143.

H-3d. *Ordering data.*—Requests, requisitions, schedules, and contracts or orders should specify the size container required and whether it is for domestic or overseas shipment.

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H-4. *Air Force.*

H-4a. *Marking for shipment.*—Marking of Air Force shipping containers shall be in accordance with the requirements of U. S. Army Specification 94-40645, Marking; Exterior, Domestic and Export Shipment, by Contractors.

(Copies of specifications, standards, and drawings required by the contractor in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)